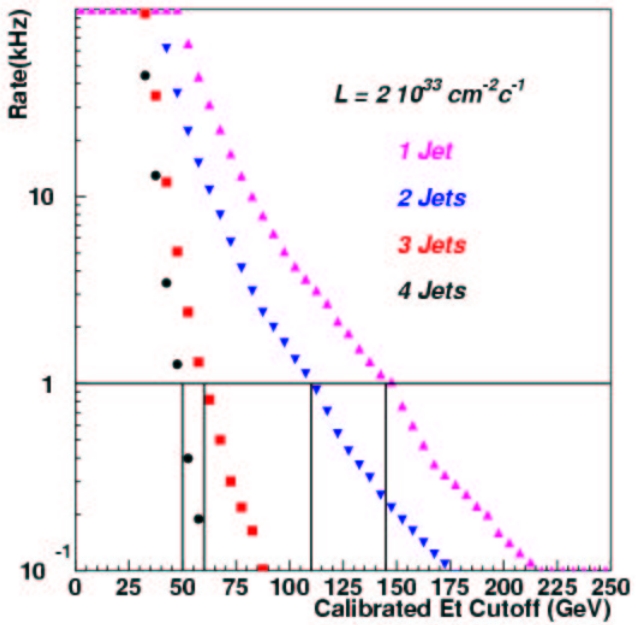
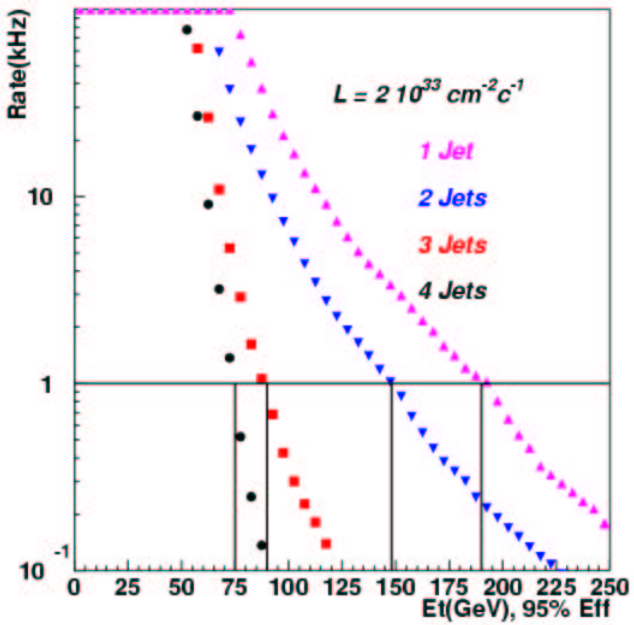
# Jet Rates/Jet Energy Corrections

Andrei Krokhotine (ITEP)

11 June 2003

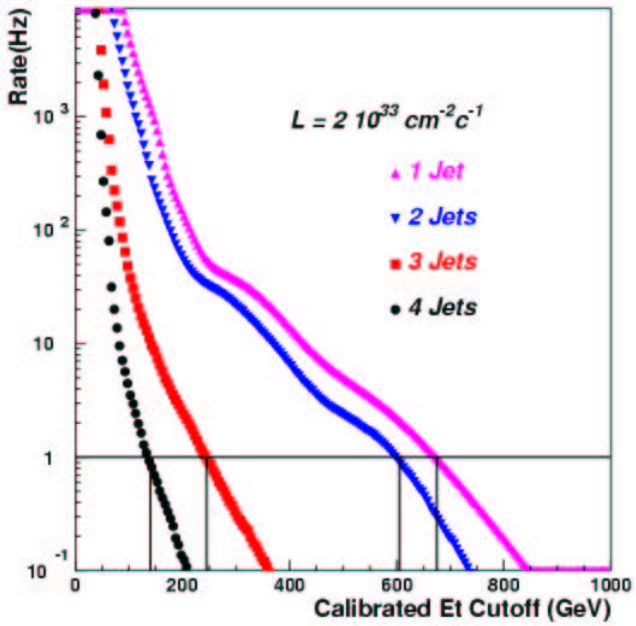
# L1 rate (L = 2x10^33 cm^−2 c^−1)

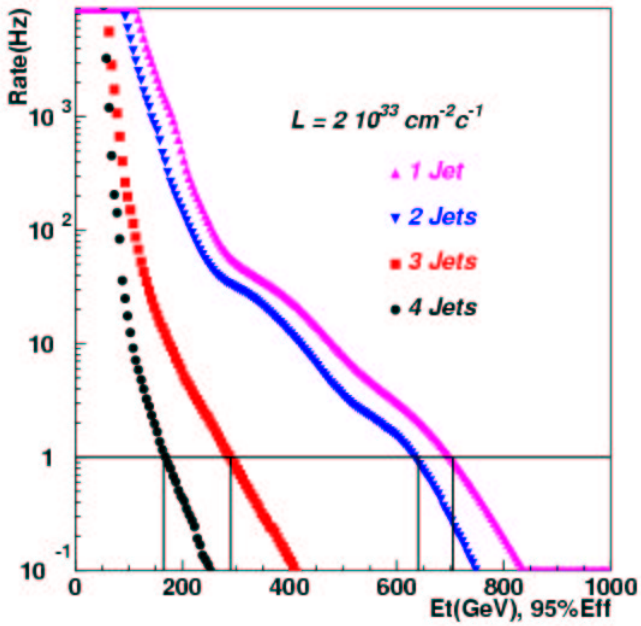



| **1 kHz** | **1 Jet** | **2Jets** | **3 Jets** | **4 Jets** |
|---|---|---|---|---|
| **Calibrated Cutoff(GeV)** | 145GeV | 110GeV | 60GeV | 50GeV |
| **95% Eff (GeV)** | 190GeV | 148GeV | 90GeV | 75GeV |

# L2 jets (L=2x10^33 cm^−2 c^−1)

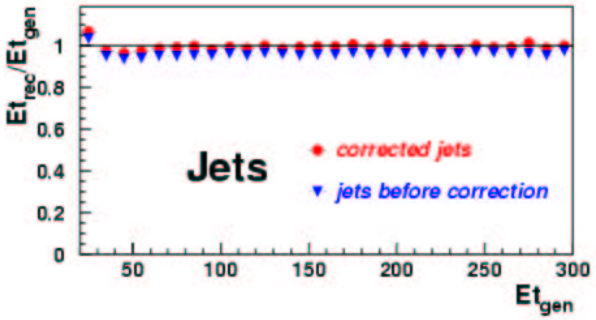


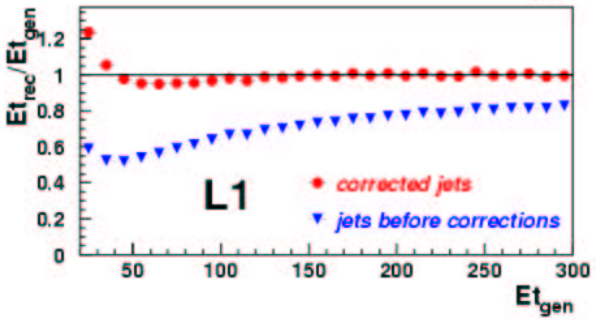




| | *1 Jet* | *2Jets* | *3 Jets* | *4 Jets* |
|---|---|---|---|---|
| **Calibrated Cutoff(GeV) 1 Hz** | 675GeV | 605GeV | 245GeV | 140GeV |
| **95% Eff 1Hz(GeV)** | 705GeV | 640GeV | 290GeV | 165GeV |
| **95%Eff 25Hz** | 400GeV | 340GeV | 145GeV | 95GeV |
| **95% Eff 25Hz (ATLAS)** | 400GeV | – | 165GeV | 120GeV |

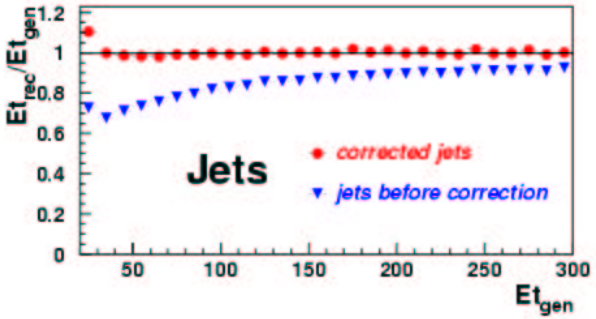
# Corrections for the new production

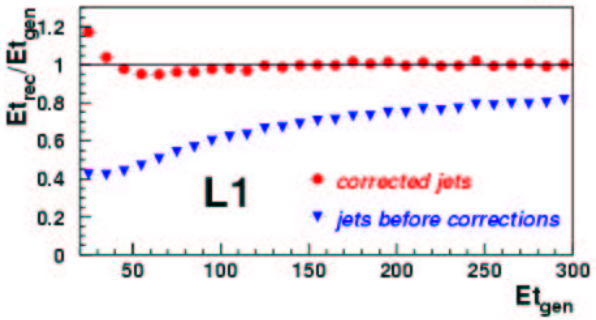
L = 10^34 cm^−2 c^−1



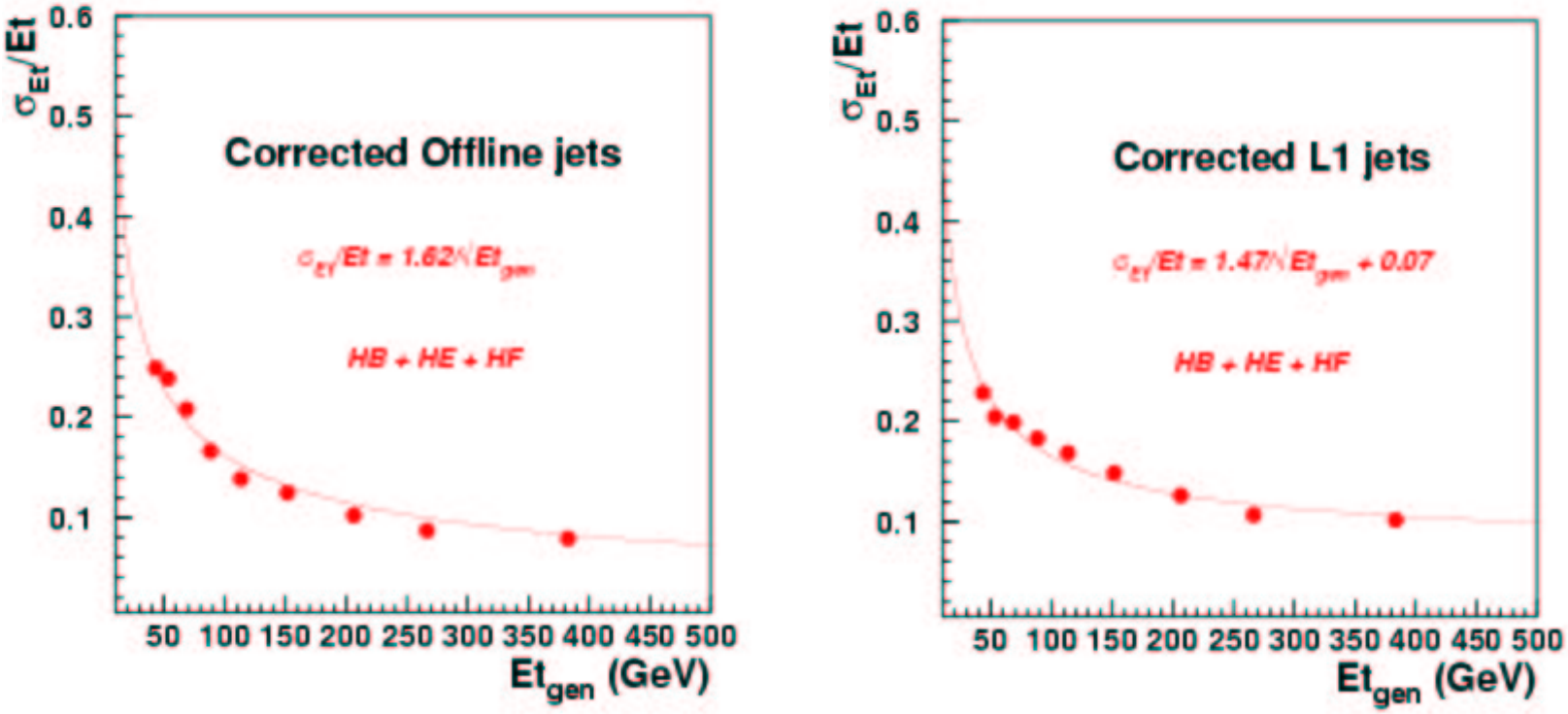

L = 2x10^33 cm^−2 c^−1



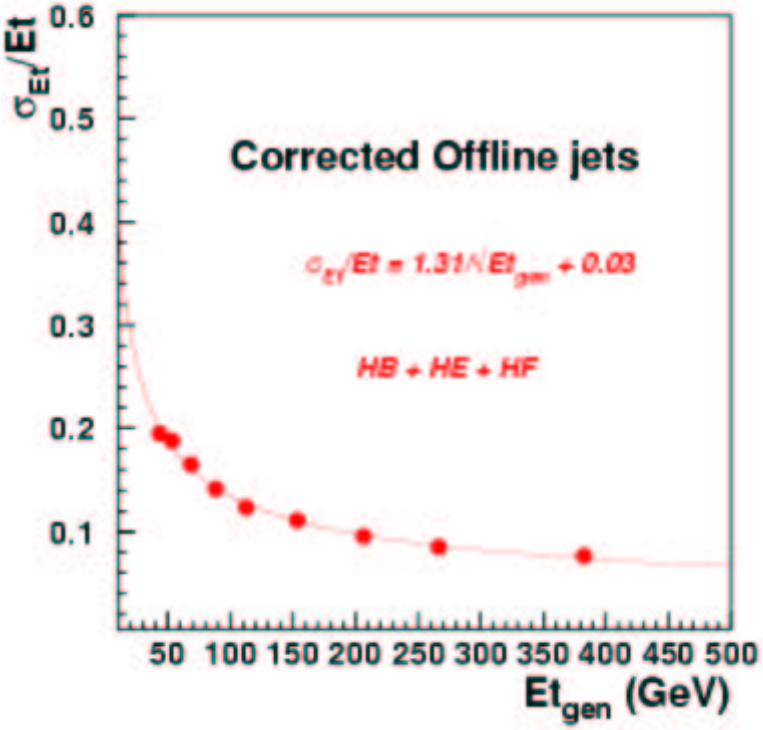

Corrections were verified with increased statistics. (some days ago Yujun added a few missing hlt bins)

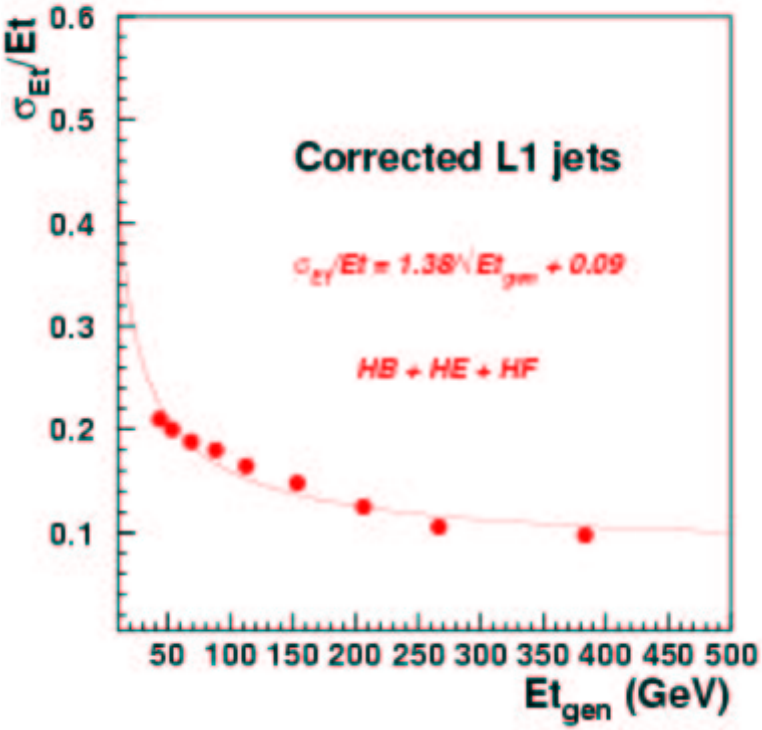
# L = 10^34 cm^−2 c^−1




The better resolution for L1 jets are due to the first two bins (30−40GeV and 40−50GeV). It can be explained by ?bad? matching between low Et generated jets and L1 jets.

L = 2x10^33cm^−2 c^−1



# Summary:

pleliminary corrections are posted at Jet/Met www page

plan to reproduce corrections as soon as more statistics will be available